

10-352



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Environmental Department

May 19, 2003

Alameda County
MAY 21 2003
Environmental Health

**Re: Tosco (Unocal) Service Station #5484
18950 Lake Chabot Road
Castro Valley, California**

" I declare under penalty of perjury, that to the best of my knowledge at the present time, the information and/or recommendations contained in the attached proposal or report is true and correct."

David B. DeWitt
Site Manager
ConocoPhillips



GETTLER-RYAN INC.

TRANSMITTAL

Alameda County
MAY 21 2003

May 2, 2003
G-R #180012

TO: Mr. David B. De Witt
ConocoPhillips
76 Broadway Avenue
Sacramento, California 95818

CC: Mr. David Vossler
Gettler-Ryan Inc.
Petaluma, California

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6747 Sierra Court, Suite J
Dublin, California 94568

RE: **Tosco (Unocal) Service Station
#5484
18950 Lake Chabot Road
Castro Valley, California**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	April 25, 2003	Groundwater Monitoring and Sampling Report Annual - Event of March 24, 2003

COMMENTS:

This report is being sent to you for your review/comment, prior to being distributed on your behalf. If no comments are received by **May 16, 2002**, this report will be distributed to the following:

cc: Alameda County Health Care Services, 1131 Harbor Bay Pkwy., Alameda, CA 94502

Enclosure

trans/5484-dbd



GETTLER - RYAN INC.

April 25, 2003
G-R Job #180012

Mr. David B. De Witt
ConocoPhillips
76 Broadway Avenue
Sacramento, California 95818

RE: Annual Event of March 24, 2003
Groundwater Monitoring & Sampling Report
Tosco (Unocal) Service Station #5484
18950 Lake Chabot Road
Castro Valley, California

Dear Mr. De Witt:

This report documents the most recent groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached).

Static groundwater levels were measured and all wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not present in the wells. Static water level data and groundwater elevations are summarized in Table 1. A Potentiometric Map is included as Figure 1.

Groundwater samples were collected from the monitoring wells as specified by G-R Standard Operating Procedure - Groundwater Sampling (attached). The field data sheets are also attached. The samples were analyzed by Sequoia Analytical. Analytical results are summarized in Tables 1, 2 and 3. A Concentration Map is included as Figure 2. The chain of custody document and laboratory analytical reports are also attached.

Sincerely,

Deanna L. Harding
Project Coordinator

Robert C. Mallory
Registered Geologist, No. 7285

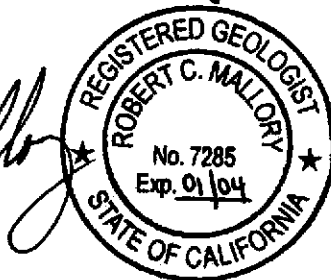
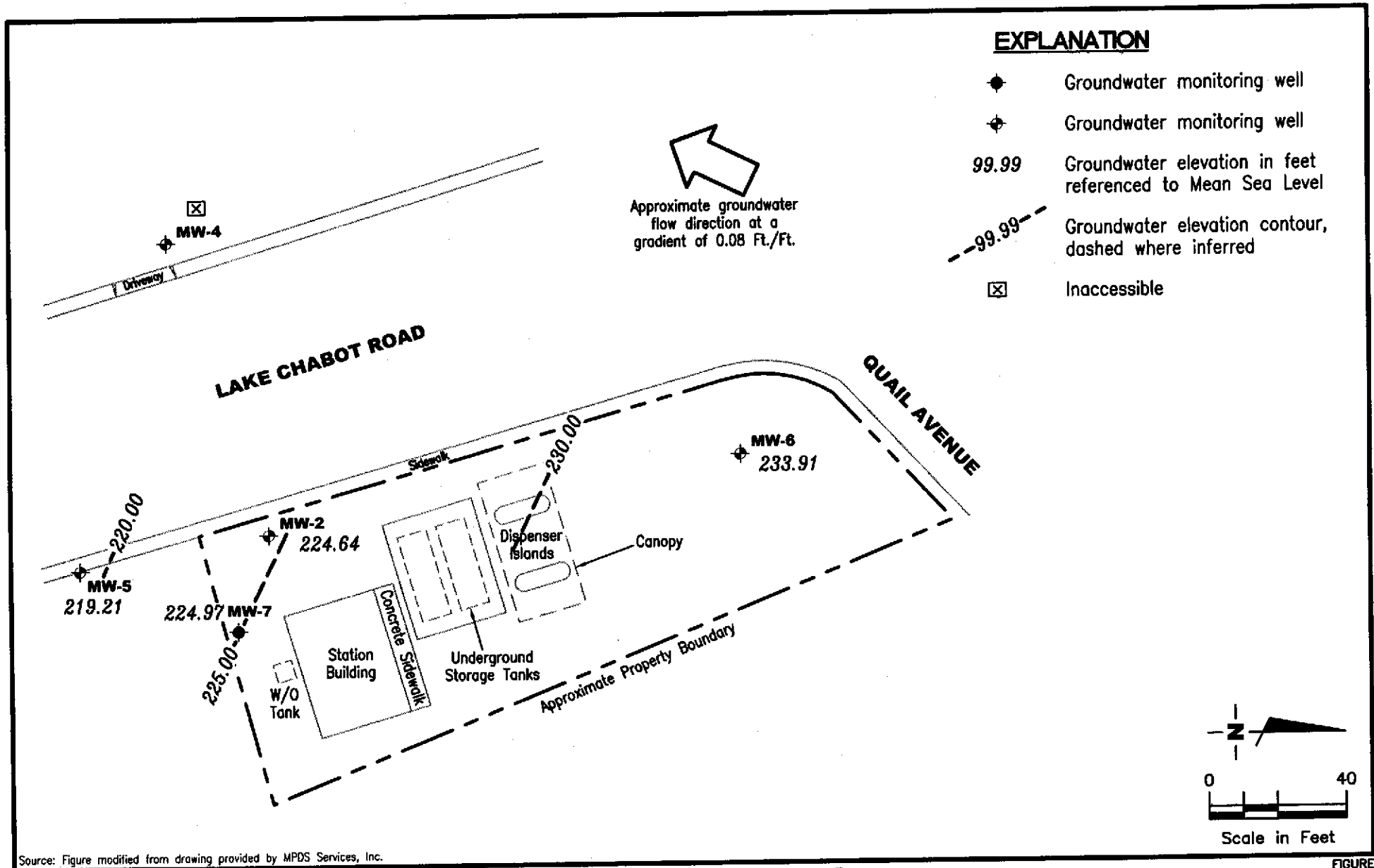


Figure 1: Potentiometric Map
Figure 2: Concentration Map
Table 1: Groundwater Monitoring Data and Analytical Results
Table 2: Groundwater Analytical Results
Table 3: Groundwater Analytical Results - Oxygenate Compounds
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports

3885.qml



GETTLER - RYAN INC.
 6747 Sierra Ct., Suite J
 Dublin, CA 94568 (925) 551-7555

POTENTIOMETRIC MAP
 Tosco (Unocal) Service Station #5484
 18950 Lake Chabot Road
 Castro Valley, California

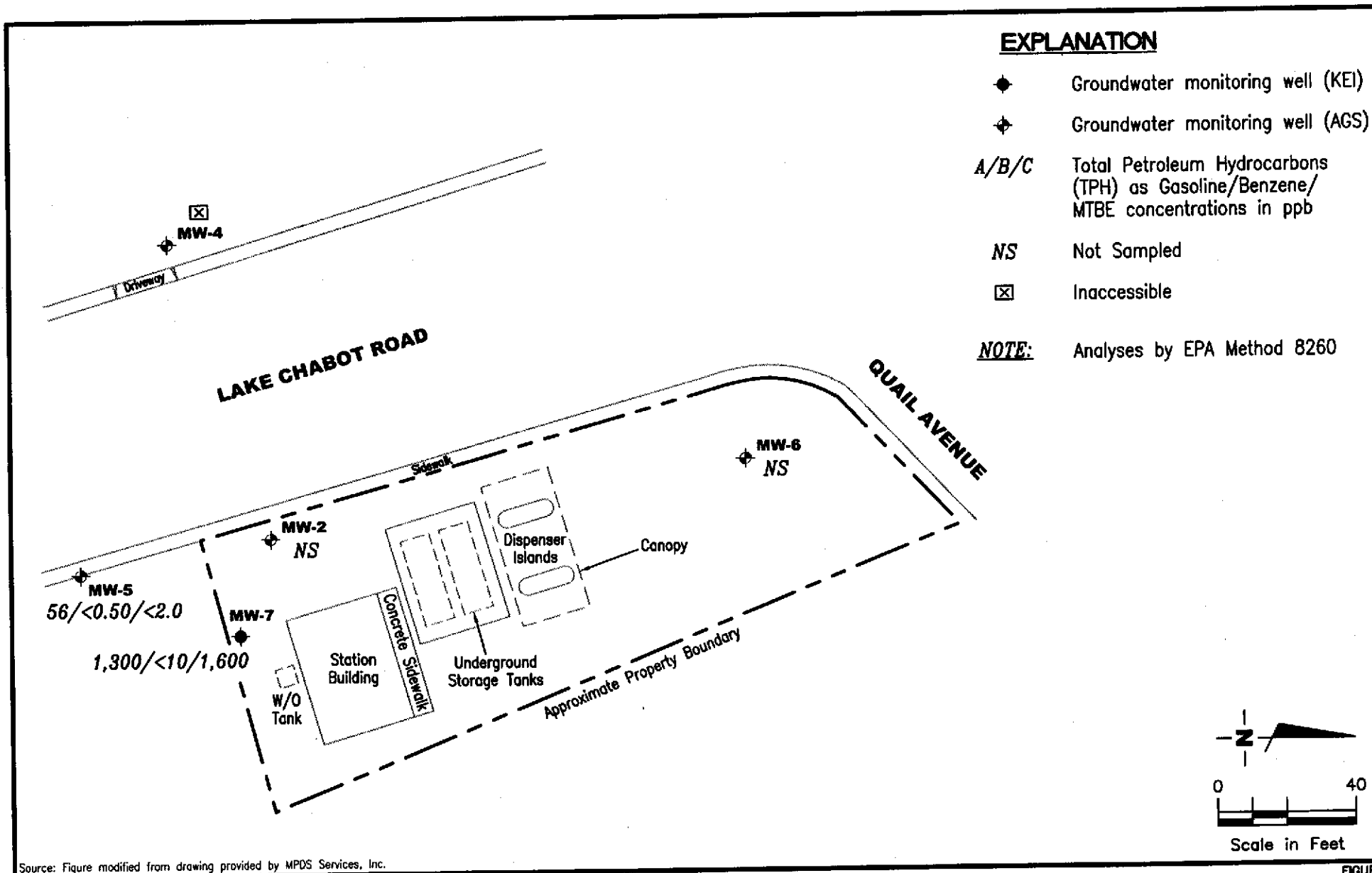
FIGURE
1

PROJECT NUMBER
 180012

REVIEWED BY

DATE
 March 24, 2003

REVISED DATE



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CONCENTRATION MAP
 Tosco (Unocal) Service Station #5484
 18950 Lake Chabot Road
 Castro Valley, California

FIGURE
2

PROJECT NUMBER 180012 REVIEWED BY DATE March 24, 2003 REVISED DATE

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5484
 18950 Lake Chabot Road
 Castro Valley, California

Well ID/ TOC* (ft)	Date	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	
MW-2	05/23/91	--	--	--	ND	ND	ND	ND	ND	--	
	09/20/91	--	--	--	ND	ND	ND	ND	ND	--	
	12/19/91	--	--	--	140	0.66	ND	0.64	1.2	--	
	03/20/92	--	--	--	120	ND	ND	ND	ND	--	
	06/18/92	--	--	--	140 ¹	ND	ND	ND	ND	110	
	09/10/92	--	--	--	61 ¹	ND	ND	ND	ND	170	
	12/10/92	--	--	--	100 ¹	ND	ND	ND	ND	350	
229.47	03/10/93	4.69	224.78	--	110 ¹	ND	ND	ND	ND	300	
	06/09/93	5.85	223.62	--	120 ¹	ND	ND	ND	ND	--	
228.88	09/09/93	6.59	222.29	--	210 ¹	ND	ND	ND	ND	--	
	12/09/93	6.94	221.94	--	96 ¹	ND	ND	ND	ND	--	
	03/03/94	4.91	223.97	--	240 ¹	ND	ND	ND	ND	--	
	06/03/94	5.71	223.17	--	190 ¹	ND	ND	ND	ND	--	
	09/02/94	7.05	221.83	--	720	ND	ND	ND	4.6	--	
	12/01/94	6.98	221.90	--	200	0.70	ND	0.58	ND	--	
	03/01/95	4.60	224.28	--	ND	ND	ND	ND	ND	--	
	06/01/95	4.65	224.23	--	420 ¹	ND	ND	ND	ND	--	
	09/05/95	5.66	223.22	--	ND	ND	0.80	ND	0.74	5	
	12/05/95	6.32	222.56	--	ND	ND	ND	ND	ND	390	
	04/11/96	4.22	224.66	NOT SAMPLED ⁶	--	--	--	--	--	--	
	03/13/97	6.58	222.30	--	--	--	--	--	--	--	
	03/02/98	5.18	223.70	--	--	--	--	--	--	--	
	03/25/99	4.84	224.04	--	--	--	--	--	--	--	
	03/07/00	4.92	223.96	--	--	--	--	--	--	--	
	03/28/01	4.37	224.51	--	--	--	--	--	--	--	
	03/09/02	4.29	224.59	--	--	--	--	--	--	--	
	03/24/03	4.24	224.64	--	--	--	--	--	--	--	
	MW-4	05/23/91	--	--	--	ND	ND	ND	ND	ND	--
		09/20/91	--	--	SAMPLED SEMI-ANNUALLY	--	--	--	--	--	--
12/19/91		--	--	--	ND	ND	ND	ND	ND	--	

Table 1
Groundwater Monitoring Data and Analytical Results
Tosco (Unocal) Service Station #5484
18950 Lake Chabot Road
Castro Valley, California

Well ID/ TOC*(ft)	Date	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-4	03/20/92	--	--	--	--	--	--	--	--	--
(cont)	06/18/92	--	--	--	ND	0.41	0.84	ND	0.55	--
	09/10/92	--	--	--	--	--	--	--	--	--
	12/10/92	--	--	--	ND	ND	ND	ND	ND	--
228.08	03/10/93	7.24	220.84	--	ND	ND	ND	ND	ND	--
	06/09/93	8.79	219.29	--	ND	ND	ND	ND	ND	--
227.77	09/09/93	9.91	217.86	--	ND	ND	ND	ND	ND	--
	12/09/93	INACCESSIBLE		--	--	--	--	--	--	--
	03/03/94	6.98	220.79	--	ND	ND	ND	ND	ND	--
	06/03/94	8.26	219.51	--	ND	ND	ND	ND	ND	--
	09/02/94	10.08	217.69	--	ND	ND	ND	ND	ND	--
	12/01/94	10.01	217.76	--	ND	ND	ND	ND	ND	--
	03/01/95	7.29	220.48	--	ND	ND	1.1	ND	0.75	--
	06/01/95	7.65	220.12	--	ND	ND	0.78	ND	1.7	--
	09/05/95	9.27	218.50	--	ND	ND	0.70	ND	0.71	--
	12/05/95	9.92	217.85	--	ND	ND	ND	ND	ND	0.68
	04/11/96	7.55	220.22	--	ND	ND	ND	ND	ND	ND
	03/13/97	9.84	217.93	--	ND	ND	ND	ND	ND	ND
	03/02/98	8.84	218.93	--	ND	ND	ND	ND	ND	ND
	03/25/99	7.46	220.31	--	ND	ND	ND	ND	ND	7.6
	03/07/00	7.58	220.19	--	ND	ND	1.11	ND	ND	ND
	03/28/01	7.62	220.15	--	ND	ND	ND	ND	ND	ND
	03/09/02 ¹¹	6.64	221.13	--	270 ⁸	3.1	<1.0	5.0	<1.0	1,200
	03/24/03	INACCESSIBLE - DUE TO LOCKED GATE			--	--	--	--	--	--
MW-5	05/23/91	--	--	--	ND	ND	ND	ND	ND	--
	09/20/91	--	--	450	ND	ND	ND	ND	ND	--
	10/10/91	--	--	ND	--	--	--	--	--	--
	12/19/91	--	--	--	ND	ND	ND	ND	ND	--
	03/20/92	--	--	170	ND	ND	ND	ND	ND	--
	06/18/92	--	--	ND	ND	ND	ND	ND	ND	--

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5484
 18950 Lake Chabot Road
 Castro Valley, California

Well ID/ TOC* (ft)	Date	DTW (ft.)	GWE (mst)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-5	09/10/92	--	--	110 ²	ND	ND	ND	ND	ND	--
(cont)	12/10/92	--	--	83 ³	ND	ND	ND	ND	ND	--
225.42	03/10/93	7.67	217.75	69 ²	ND	ND	ND	ND	ND	--
	06/09/93	8.57	216.85	64	ND	ND	ND	ND	ND	--
225.11	09/09/93	9.12	215.99	58 ³	ND	ND	ND	ND	ND	--
	12/09/93	9.97	215.14	87 ³	ND	ND	ND	ND	ND	--
	03/03/94	7.87	217.24	ND	ND	ND	ND	0.71	1.7	ND
	06/03/94	9.01	216.10	80 ³	ND	ND	ND	ND	ND	--
	09/02/94	9.23	215.88	130 ²	ND	ND	ND	ND	ND	--
	12/01/94	9.18	215.93	79 ²	ND	ND	ND	ND	ND	--
	03/01/95	7.98	217.13	ND	ND	ND	ND	ND	ND	--
	06/01/95	8.21	216.90	57 ²	ND	ND	ND	ND	ND	--
	09/05/95	9.57	215.54	210 ²	ND	ND	0.95	ND	0.87	-- ⁵
	12/05/95	9.60	215.51	170 ²	ND	ND	ND	ND	ND	27
	04/11/96	7.48	217.63	--	ND	ND	ND	ND	ND	56
	03/13/97	9.56	215.55	--	ND	ND	ND	ND	ND	ND
	03/02/98	8.96	216.15	--	ND	ND	ND	ND	ND	ND
	03/25/99	7.53	217.58	--	ND	ND	ND	ND	ND	3.9
	03/07/00	7.49	217.62	--	ND	ND	1.13	ND	ND	ND
	03/28/01	6.83	218.28	--	ND	ND	ND	ND	ND	ND
	03/09/02	5.85	219.26	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	03/24/03 ¹²	5.90	219.21	--	56 ¹³	<0.50	<0.50	<0.50	<1.0	<2.0
MW-6	05/23/91	--	--	--	ND	ND	ND	ND	ND	--
	09/20/91	--	--	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
	12/19/91	--	--	--	ND	ND	ND	ND	ND	--
	06/18/92	--	--	--	ND	ND	ND	ND	ND	--
	12/10/92	--	--	--	ND	ND	ND	ND	ND	--
239.38	03/10/93	5.32	234.06	--	--	--	--	--	--	--
	06/09/93	5.94	233.44	--	ND	ND	ND	ND	ND	--
239.04	09/09/93	6.82	232.22	--	--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5484
 18950 Lake Chabot Road
 Castro Valley, California

Well ID/ TOC* (ft)	Date	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	
MW-6 (cont)	12/09/93	7.43	231.61	--	150	ND	ND	ND	1.7	--	
	03/03/94	6.45	232.59	--	--	--	--	--	--	--	
	06/03/94	5.81	233.23	--	ND	ND	ND	ND	ND	--	
	09/02/94	6.98	232.06	--	--	--	--	--	--	--	
	12/01/94	6.92	232.12	--	ND	ND	ND	ND	ND	--	
	03/01/95	5.17	233.87	--	--	--	--	--	--	--	
	06/01/95	4.76	234.28	--	ND	ND	0.70	ND	1.7	--	
	09/05/95	5.69	233.35	--	--	--	--	--	--	--	
	12/05/95	6.75	232.29	--	ND	ND	ND	ND	ND	1.4	
	04/11/96	4.28	234.76	NOT SAMPLED ⁶			--	--	--	--	--
	03/13/97	7.05	231.99	--	--	--	--	--	--	--	
	03/02/98	5.14	233.90	--	--	--	--	--	--	--	
	03/25/99	5.05	233.99	--	--	--	--	--	--	--	
	03/07/00	5.15	233.89	--	--	--	--	--	--	--	
	03/28/01	5.17	233.87	--	--	--	--	--	--	--	
	03/09/02	5.13	233.91	--	--	--	--	--	--	--	
	03/24/03	5.13	233.91	--	--	--	--	--	--	--	
MW-7	05/23/91	--	--	540	3,000	160	1.2	25	120	--	
	09/20/91	--	--	580	1,400	160	0.75	89	130	--	
	12/19/91	--	--	770	3,900	240	2.4	280	270	--	
	03/20/92	--	--	3,200	11,000	980	ND	990	1,600	--	
	06/18/92	--	--	990 ²	5,500	340	4.2	380	410	--	
	09/10/92	--	--	290 ²	2,100	160	1.9	140	150	--	
	12/10/92	--	--	200 ³	1,200	28	ND	37	13	--	
	03/10/93	7.69	223.97	1,100 ²	4,400	310	ND	300	330	--	
231.66	06/09/93	8.59	223.07	830 ³	4,600	430	ND	510	430	--	
	231.39	09/09/93	10.11	221.28	550 ³	2,600 ⁴	160	19	250	120	--
		12/09/93	10.65	220.74	250 ²	980	54	4.6	71	5.6	--
	03/03/94	8.17	223.22	1,400 ²	9,300	290	ND	590	400	1.7	
	06/03/94	8.73	222.66	2,000 ²	9,400	380	5.0	820	240	--	

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5484
 18950 Lake Chabot Road
 Castro Valley, California

Well ID/ TOC*(ft)	Date	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-7	09/02/94	11.00	220.39	490 ²	3,800	77	ND	180	42	--
(cont)	12/01/94	10.95	220.44	260 ²	3,100	80	ND	250	190	--
	03/01/95	8.03	223.36	1,900 ³	3,300	200	3.9	300	350	--
	06/01/95	7.92	223.47	1,600 ²	3,900	170	ND	400	430	--
	09/05/95	8.61	222.78	ND	710	32	ND	85	33	-- ⁵
	12/05/95	9.69	221.70	110 ²	400	23	ND	34	16	1,600
	12/08/95	9.59	221.80	--	--	--	--	--	--	--
	04/11/96	7.31	224.08	--	1,500	52	ND	160	130	1,500
	03/13/97	9.48	221.91	--	460	13	ND	31	4.0	430
	03/02/98	7.93	223.46	--	1,800	63	ND ⁷	240	60	790
	03/25/99	7.25	224.14	--	380	6.4	ND ⁷	10	4.9	1,200
	03/07/00	7.12	224.27	--	199 ⁸	3.51	ND	3.30	0.697	1,250
	03/28/01	6.92	224.47	--	734 ⁹	19.6	0.514	23.3	6.13	1,070/1,260 ¹⁰
	03/09/02 ¹¹	6.48	224.91	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	03/24/03 ¹²	6.42	224.97	--	1,300 ¹³	<10	<10	<10	<20	1,600
Trip Blank										
TB-LB	03/02/98	--	--	--	ND	ND	ND	ND	ND	ND
	03/25/99	--	--	--	ND	ND	ND	ND	ND	ND
	03/07/00	--	--	--	ND	ND	ND	ND	ND	ND
	03/28/01	--	--	--	ND	ND	ND	ND	ND	ND
	03/09/02	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	03/24/03 ¹²	--	--	--	67 ¹³	<0.50	<0.50	<0.50	<1.0	<2.0

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5484
 18950 Lake Chabot Road
 Castro Valley, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to March 2, 1998, were provided by MPDS Services, Inc.

TOC = Top of Casing

DTW = Depth to Water

(ft.) = Feet

GWE = Groundwater Elevation

(msl) = Relative to mean sea level

TPH-D = Total Petroleum Hydrocarbons as Diesel

TPH-G = Total Petroleum Hydrocarbons as Gasoline

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl tertiary butyl ether

(ppb) = Parts per billion

ND = Not Detected

-- = Not Measured/Not Analyzed

QA = Quality Assurance/Trip Blank

* TOC elevations are relative to Mean Sea Level (msl), per the Alameda County Benchmark (Elevation = 219.68 feet msl). Prior to September 9, 1993, DTW measurements were taken from the top of well covers.

¹ Laboratory reported that the hydrocarbons detected did not appear to be gasoline.

² Laboratory report indicates that the hydrocarbons detected did not appear to be diesel.

³ Laboratory report indicates that the hydrocarbons detected appeared to be a diesel and non-diesel mixture.

⁴ Laboratory reported that the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.

⁵ Laboratory has potentially identified the presence of MTBE at reportable levels in the groundwater sample collected from this well.

⁶ Sampling discontinued per Alameda County Health Care Services letter dated April 1, 1996.

⁷ Detection limit raised. Refer to analytical reports.

⁸ Laboratory report indicates weathered gasoline C6-C12.

⁹ Laboratory report indicates gasoline C6-C12.

¹⁰ MTBE by EPA Method 8260.

¹¹ Results suggest that the sample voas for MW-4 and MW-7 may have been switched either in the field or in the laboratory.

¹² TPH-G, BTEX, and MTBE by EPA Method 8260.

¹³ Laboratory report indicates a hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.

Table 2
Groundwater Analytical Results
 Tosco (Unocal) Service Station #5484
 18950 Lake Chabot Road
 Castro Valley, California

Well ID	Date	TOG (ppm)	Bis (2-ethylhexyl) phthalate (ppb)	2-Methyl- naphthalene (ppb)	Naphthalene (ppb)	1,2- Dichloroethane (ppb)	Chloroform (ppb)	Bromodich- loromethane (ppb)
MW-4	04/11/96	--	ND	ND	ND	ND	--	--
	03/13/97	--	ND	ND	ND	ND	--	--
	03/02/98 ⁶	--	--	--	--	ND	--	--
	03/25/99	--	ND	ND	ND	ND	--	--
	03/07/00	--	ND ⁷	ND ⁷	ND ⁷	ND ⁷	87.1	ND ⁷
	03/28/01	--	ND	ND	ND	ND	ND	ND
	03/09/02 ⁸	--	<10	<5.0	<5.0	<2.5	<2.5	<2.5
	03/24/03	INACCESSIBLE - DUE TO LOCKED GATE			--	--	--	--
MW-5	03/10/93	--	ND	ND	ND	ND	--	--
	06/09/93	--	--	--	--	ND	--	--
	09/09/93	--	--	--	--	ND	--	--
	12/09/93	--	--	--	--	ND	--	--
	03/03/94	--	--	--	--	ND	--	--
	06/03/94	--	--	--	--	ND	--	--
	09/02/94	--	--	--	--	ND	--	--
	12/01/94	--	--	--	--	ND	--	--
	03/01/95	--	--	--	--	ND	--	--
	06/01/95	--	--	--	--	ND	--	--
	09/05/95	--	--	--	--	ND	--	--
	12/05/95	--	--	--	--	ND	--	--
	04/11/96	--	ND	ND	ND	ND	--	--
	03/13/97	--	740	ND	ND	ND	--	--
	03/02/98 ⁶	--	--	--	--	ND	--	--
	03/25/99	--	ND	ND	ND	ND	--	--
	03/07/00	--	ND ⁷	ND ⁷	ND ⁷	ND ⁷	69.7	7.16
	03/28/01	--	ND	ND	ND	ND	ND	ND
03/09/02	--	<10	<5.0	<5.0	<0.50	<0.50	<0.50	
03/24/03	--	<10	<2.0	<2.0	<0.50	<0.50	<0.50	
MW-7	05/23/91	ND	--	--	--	3.4	--	--
	09/20/91	ND	--	--	--	ND	--	--
	12/19/91	ND	--	--	--	3.1	--	--
	03/20/92	ND	--	--	--	ND	--	--
	06/18/92	ND	--	--	--	ND	--	--
	09/10/92	--	--	--	--	2.3	--	--
	12/10/92	--	--	--	--	2.0	--	--
	03/10/93 ¹	--	13	19	83	1.3	--	--
	06/09/93 ²	--	13	19	83	1.3	--	--
	09/09/93 ³	--	ND	11	48	1.5	--	--
	12/09/93	--	ND	ND	15	1.5	--	--
	03/03/94	--	ND	34	130	1.7	--	--
	06/03/94	--	ND	18	61	1.4	--	--

Table 2
Groundwater Analytical Results
 Tosco (Unocal) Service Station #5484
 18950 Lake Chabot Road
 Castro Valley, California

Well ID	Date	TOG (ppm)	Bis (2-ethylhexyl) phthalate (ppb)	2-Methyl- naphthalene (ppb)	Naphthalene (ppb)	1,2- Dichloroethane (ppb)	Chloroform (ppb)	Bromodich- loromethane (ppb)
MW-7	09/02/94	--	ND	ND	ND	1.1	--	--
(cont)	12/01/94	--	ND	ND	2.5	1.0	--	--
	03/01/95 ⁴	--	ND	40	120	1.6	--	--
	06/01/95	--	ND	13	83	1.4	--	--
	09/05/95	--	ND	ND	7.0	1.8	--	--
	12/05/95 ⁵	--	--	--	--	ND	--	--
	12/08/95	--	ND	ND	14	--	--	--
	04/11/96	--	ND	7.6	42	0.75	--	--
	03/13/97	--	120	ND	9.0	ND	--	--
	03/02/98 ⁶	--	--	--	--	0.92	--	--
	03/25/99	--	ND	ND	ND	ND	--	--
	03/07/00	--	ND ⁷	ND ⁷	ND ⁷	ND ⁷	ND ⁷	ND ⁷
	03/28/01	--	ND	ND	7.7	ND	ND	ND
	03/09/02 ⁸	--	<10	<5.0	<5.0	<0.50	<0.50	<0.50
	03/24/03	--	<10	<2.0	<2.0	0.98	<0.50	<0.50

EXPLANATIONS:

Groundwater analytical results prior to March 2, 1998, were provided by MPDS Services, Inc.

TOG = Total Oil and Grease

(ppb) = Parts per billion

(ppm) = Parts per million

ND = Not Detected

-- = Not Analyzed

¹ Nine "tentatively identified compounds" were detected by the EPA Method 8270 open scan at concentrations ranging from 10 ppb to 59 ppb. Refer to laboratory analysis sheets for the specific compounds and concentrations.

² Ten "tentatively identified compounds" were detected by the EPA Method 8270 open scan at concentrations ranging from 14 ppb to 150 ppb. Refer to laboratory analysis sheets for the specified compounds and concentrations.

³ Seven "tentatively identified compounds" were detected by the EPA Method 8270 open scan at concentrations ranging 11 ppb to 88 ppb. Refer to laboratory analysis sheets for the specific compounds and concentrations.

⁴ Phenol was detected at a concentration of 2.1 ppb.

⁵ Tetrachloroethene was detected at a concentration of 56 ppb.

⁶ EPA Method 8270 requested on chain of custody; laboratory inadvertently omitted testing.

⁷ Detection limit raised. Refer to analytical reports.

⁸ Results suggest that the sample voas for MW-4 and MW-7 may have been switched either in the field or in the laboratory.

Note: All EPA Method 8010 and 8270 compounds were ND, except as listed above.

Table 3
Groundwater Analytical Results - Oxygenate Compounds
 Tosco (Unocal) Service Station #5484
 18950 Lake Chabot Road
 Castro Valley, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-5	03/24/03	--	--	<2.0	--	--	--	<0.50	--
MW-7	03/28/01	ND ¹	ND ¹	1,260	ND ¹	ND ¹	ND ¹	ND ¹	ND ¹
	03/24/03	--	--	1,600	--	--	--	0.98	--

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

EXPLANATIONS:

TBA = Tertiary butyl alcohol
 MTBE = Methyl tertiary butyl ether
 DIPE = Di-isopropyl ether
 ETBE = Ethyl tertiary butyl ether
 TAME = Tertiary amyl methyl ether
 1,2-DCA = 1,2-Dichloroethane
 EDB = 1,2-Dibromoethane
 (ppb) = Parts per billion
 ND = Not Detected
 -- = Not Analyzed

¹ Detection limit raised. Refer to analytical reports.

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

After water levels are collected and prior to sampling, temperature, pH and electrical conductivity are measured. If purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or disposable bailers. The measurements are taken a minimum of three times during the purging. Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set and is labeled as QA. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Phillips 66 Company, the purge water and decontamination water generated during sampling activities is transported to Phillips 66 - San Francisco Refinery, located in Rodeo, California.



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips #5484
 Site Address: 18950 Lake Chabot Road
 City: Castro Valley, CA

Job Number: 180012
 Event Date: 3/24/03 (inclusive)
 Sampler: Ventres

Well ID: MW-2
 Well Diameter: 2 1/4 in.
 Total Depth: 19.20 ft.
 Depth to Water: 4.24 ft.

Date Monitored: 3/24/03 Well Condition: OK

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

✓ xVF _____ = _____ x3 (case volume) = Estimated Purge Volume: _____ gal.

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Bailed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: 0 ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Product Transferred to: _____

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: 1 Water Color: _____ Odor: _____
 Purging Flow Rate: gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	SEQUOIA	TPH-G(8015)/BTEX/MTBE(8021)
	x voa vial	YES	HCL	SEQUOIA	HVOC'S(8010 list)8021B
	x Amber	YES	NP	SEQUOIA	SVOC'S(8270)

COMMENTS: Monitor only.

Add/Replaced Lock: _____

Add/Replaced Plug: _____ Size: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips #5484
 Site Address: 18950 Lake Chabot Road
 City: Castro Valley, CA

Job Number: 180012
 Event Date: 3/24/03 (inclusive)
 Sampler: Ventura

Well ID: MW-4
 Well Diameter: 2 1/4 in.
 Total Depth: 27.25 ft.
 Depth to Water: _____ ft.

Date Monitored: _____

Well Condition: Inaccessible

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

xVF _____ = _____ x3 (case volume) = Estimated Purge Volume: _____ gal.

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Bailed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Product Transferred to: _____

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: 1 Water Color: _____ Odor: _____
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	SEQUOIA	TPH-G(8015)/BTEX/MTBE(8021)
	x voa vial	YES	HCL	SEQUOIA	HVOC'S(8010 list)8021B
	x Amber	YES	NP	SEQUOIA	SVOC'S(8270)

COMMENTS: * New fence around the property, unable to unlock gate.

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips #5484 Job Number: 180012
 Site Address: 18950 Lake Chabot Road Event Date: 3/24/03 (inclusive)
 City: Castro Valley, CA Sampler: Vertek

Well ID: MW-5 Date Monitored: 3/24/03 Well Condition: OK
 Well Diameter: 2 1/4 in.
 Total Depth: 23.85 ft.
 Depth to Water: 5.90 ft.
17.95 x VF 0.66 = 11.84 x3 (case volume) = Estimated Purge Volume: 36 gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Purge Equipment:
 Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Other: _____

Sampling Equipment:
 Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Bailed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: 0 ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Product Transferred to: _____

Start Time (purge): 1010 Weather Conditions: clear
 Sample Time/Date: 1040 3/24/03 Water Color: clear Odor: no
 Purging Flow Rate: 2 gpm. Sediment Description: _____
 Did well de-water? no If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>1015</u>	<u>12</u>	<u>7.54</u>	<u>927</u>	<u>65.3</u>	_____	_____
<u>1021</u>	<u>24</u>	<u>7.43</u>	<u>911</u>	<u>66.2</u>	_____	_____
<u>1027</u>	<u>36</u>	<u>7.40</u>	<u>903</u>	<u>66.4</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-5</u>	<u>3</u> x vov vial	<u>YES</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>TPH-G(8015)/BTEX/MTBE(8021)</u>
<u>2</u>	<u>3</u> x vov vial	<u>YES</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>HVOC'S(8010 list)8021B</u>
<u>1</u>	<u>1</u> x Amber	<u>YES</u>	<u>NP</u>	<u>SEQUOIA</u>	<u>SVOC'S(8270)</u>
_____	_____	_____	_____	_____	_____

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips #5484 Job Number: 180012
 Site Address: 18950 Lake Chabot Road Event Date: 3/24/03 (inclusive)
 City: Castro Valley, CA Sampler: 1 bottles

Well ID: MW-6 Date Monitored: 3/24/03 Well Condition: OK
 Well Diameter: 2 1/4 in.
 Total Depth: 26.97 ft.
 Depth to Water: 5.13 ft.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

xVF _____ = _____ x3 (case volume) = Estimated Purge Volume: _____ gal.

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Bailed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: 0 ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Product Transferred to: _____

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: 1 Water Color: _____ Odor: _____
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	SEQUOIA	TPH-G(8015)/BTEX/MTBE(8021)
	x voa vial	YES	HCL	SEQUOIA	HVOC'S(8010 list)8021B
	x Amber	YES	NP	SEQUOIA	SVOC'S(8270)

COMMENTS: Monitor only.

Add/Replaced Lock: _____

Add/Replaced Plug: _____ Size: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips #5484 Job Number: 180012
 Site Address: 18950 Lake Chabot Road Event Date: 3/24/03 (inclusive)
 City: Castro Valley, CA Sampler: Vortkes

Well ID: MW-7 Date Monitored: 3/24/03 Well Condition: OK
 Well Diameter: 21.4 in.
 Total Depth: 19.55 ft.
 Depth to Water: 6.42 ft.
13.13 xVF 0.17 = 2.23 x3 (case volume) = Estimated Purge Volume: 7 gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Purge Equipment:
 Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump /
 Suction Pump _____
 Grundfos _____
 Other: _____

Sampling Equipment:
 Disposable Bailer /
 Pressure Bailer _____
 Discrete Bailer _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Bailed: _____ (2400 hrs)
 Depth to Product: _____ ft.
 Depth to Water: _____ ft.
 Hydrocarbon Thickness: φ ft.
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Product Transferred to: _____

Start Time (purge): 1100 Weather Conditions: clear
 Sample Time/Date: 1115 13/24/03 Water Color: grayish Odor: mild
 Purging Flow Rate: 1 gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>1102</u>	<u>2</u>	<u>7.34</u>	<u>1397</u>	<u>68.7</u>	_____	_____
<u>1104</u>	<u>4.5</u>	<u>7.23</u>	<u>1390</u>	<u>69.1</u>	_____	_____
<u>1107</u>	<u>7</u>	<u>7.20</u>	<u>1380</u>	<u>69.3</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-7</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>TPH-G(8015)/BTEX/MTBE(8021)</u>
<u>-</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>HVOC'S(8010 list)8021B</u>
<u>-</u>	<u>1</u> x Amber	<u>YES</u>	<u>NP</u>	<u>SEQUOIA</u>	<u>SVOC'S(8270)</u>
_____	_____	_____	_____	_____	_____

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____

2003.03.0526

72802

Gettler-Ryan Inc., Chain-of-Custody

Tosco Corp./
Phillips 66 Co.
2000 Crow Canyon Place
Suite 400
San Ramon, CA 94583

Facility Number 15484
Facility Address 18950 LAKE CHABOT ROAD, CASTRO VALLEY, CA
Global ID T0600101453 Project 180012.80
Client Contact MR. DAVID B. DEWITT
Phone (925) 277-2384

Laboratory Name STL - PLEASANTON, CA
Consultant GETTLER-RYAN, INC. DEANNA L. HARDING
Address 6747 SIERRA CT., SUITE J, DUBLIN CA 94568
Phone (925) 551-7555 Fax (925) 551-7899
Samples Collected by Vatka

9256003002

stlonsite

Apr 10 03 11:41a

FILE NAME: P:\ENVIRO\X-CHARCUSTODY\STL-COC.DWG | Layout Tab: Model

SAMPLE ID	Number of Containers Matrix	Soil A = Air W = Water C = Charcoal	Sample Preservation	Date/Time (2400 Hrs)	TPH-GAS/BTEX/MTBE EPA 8015/8021B	TPH-DIESEL EPA 8015	TPH-DIESEL w/Silica gel EPA 8015	TPH-GAS EPA 8015	TPH-GAS/BTEX/MTBE EPA 8260	OXYGENATES EPA 8260	METHANOL EPA 8015	TOTAL OIL & GREASE EPA 5520	METALS Cd, Cr, Pb, Zn, Ni	NITRATE/SULFATE/ALUMINUM EPA 300 SERIES	HWOC'S (8010) EPA 8021B	VOC'S (8240) EPA 8260	SVOC'S EPA 8270	Remarks
QA	1	W	Hel	3/24/03	X													
MW-5	7	W	W	1040	X										X		X	
MW-7	7	W	W	1115	X										X		X	

OXYGENATES 8260

- 1 - MTBE
- 2 - TBA
- 3 - TAME
- 4 - DIPE
- 5 - ETBE
- 6 - 1,2-DCA
- 7 - EDB
- 8 - ETHANOL

Relinquished By (Signature) <i>David Dewitt</i>	Organization G.R	Date/Time 3/24/03	Received By (Signature) <i>[Signature]</i>	Organization	Date/Time	iced Y/N	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 72 Hrs. 5 Days 10 Days As Contracted
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	iced Y/N	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature) <i>[Signature]</i>		Date/Time 3-24-03	iced Y/N 1250	

Gettler Ryan

April 10, 2003

6747 Sierra Court Suite J
Dublin, CA 94568

Attn.: Deanna Harding

Project#: 180012:80

Project: Tosco # 5484

Site: 18950 Lake Chabot Road
Castro Valley, CA

RECEIVED

GETTLER RYAN INC.
GENERAL CONFIDENTIAL

Dear Ms. Harding,

Attached is our report for your samples received on 03/24/2003 12:50
This report has been reviewed and approved for release. Reproduction of this report
is permitted only in its entirety.

The report contains a Case Narrative detailing sample receipt and analysis.

Please note that any unused portion of the samples will be discarded after
05/08/2003 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,
please call me at (925) 484-1919.

You can also contact me via email. My email address is: tgranicher@stl-inc.com

Sincerely,



Tod Granicher
Project Manager

Gettler Ryan

April 10, 2003

6747 Sierra Court Suite J
Dublin, CA 94568

Attn.: Deanna Harding

Project#: 180012.80

Project: Tosco # 5484

Site: 18950 Lake Chabot Road
Castro Valley, CA

Case Narrative

General and Sample Comments

We (STL San Francisco) received 3 Water samples , on Monday, March 24, 2003
12:50 PM.

Analysis Coments and Flags by QC Batch

Semi-volatile Organic Compounds by 8270C	Water	QC Batch#: 2003/03/25-01.11
--	-------	-----------------------------

MW-5 2003-03-0526-002
Compound Flag(s)
sl Surrogate recoveries were lower than QC limit due to matrix interference,
confirmed by reanalysis.

MW-7 2003-03-0526-003
Compound Flag(s)
sl Surrogate recoveries were lower than QC limit due to matrix interference,
confirmed by reanalysis.

Gas/BTEX Fuel Oxygenates by 8260B	Water	QC Batch#: 2003/04/04-03.39
-----------------------------------	-------	-----------------------------

QA 2003-03-0526-001
Compound Flag(s)
g Hydrocarbon reported in the gasoline range does not match
our gasoline standard.

MW-5 2003-03-0526-002
Compound Flag(s)
g Hydrocarbon reported in the gasoline range does not match
our gasoline standard.

Gas/BTEX Fuel Oxygenates by 8260B	Water	QC Batch#: 2003/04/06-01.62
-----------------------------------	-------	-----------------------------

MW-7 2003-03-0526-003
Analysis Flag(s)
o Reporting limits were raised due to high level of analyte present in the sample.

MW-7 2003-03-0526-003
Compound Flag(s)
g Hydrocarbon reported in the gasoline range does not match
our gasoline standard.

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J

Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180012.80

Tosco # 5484

Received: 03/24/2003 12:50

Site: 18950 Lake Chabot Road
Castro Valley, CA**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
QA	03/24/2003	Water	1
MW-5	03/24/2003 10:40	Water	2
MW-7	03/24/2003 11:15	Water	3

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan
Attn.: Deanna Harding

6747 Sierra Court Suite J
Dublin, CA 94568
Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180012.80
Tosco # 5484

Received: 03/24/2003 12:50

Site: 18950 Lake Chabot Road
Castro Valley, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	QA	Lab ID:	2003-03-0526 - 1
Sampled:	03/24/2003	Extracted:	4/4/2003 19:58
Matrix:	Water	QC Batch#:	2003/04/04-03.39

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	67	50	ug/L	1.00	04/04/2003 19:58	g
Benzene	ND	0.50	ug/L	1.00	04/04/2003 19:58	
Toluene	ND	0.50	ug/L	1.00	04/04/2003 19:58	
Ethylbenzene	ND	0.50	ug/L	1.00	04/04/2003 19:58	
Total xylenes	ND	1.0	ug/L	1.00	04/04/2003 19:58	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	04/04/2003 19:58	
Surrogates(s)						
1,2-Dichloroethane-d4	83.8	76-114	%	1.00	04/04/2003 19:58	
Toluene-d8	101.8	88-110	%	1.00	04/04/2003 19:58	

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan
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Project: 180012.80
Tosco # 5484

Received: 03/24/2003 12:50

Site: 18950 Lake Chabot Road
Castro Valley, CA

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-5	Lab ID: 2003-03-0526 - 2
Sampled: 03/24/2003 10:40	Extracted: 4/4/2003 20:21
Matrix: Water	QC Batch#: 2003/04/04-03.39

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	56	50	ug/L	1.00	04/04/2003 20:21	g
Benzene	ND	0.50	ug/L	1.00	04/04/2003 20:21	
Toluene	ND	0.50	ug/L	1.00	04/04/2003 20:21	
Ethylbenzene	ND	0.50	ug/L	1.00	04/04/2003 20:21	
Total xylenes	ND	1.0	ug/L	1.00	04/04/2003 20:21	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	04/04/2003 20:21	
Surrogates(s)						
1,2-Dichloroethane-d4	83.6	76-114	%	1.00	04/04/2003 20:21	
Toluene-d8	101.6	88-110	%	1.00	04/04/2003 20:21	

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 180012.80

Tosco # 5484

Received: 03/24/2003 12:50

Site: 18950 Lake Chabot Road
Castro Valley, CA

Prep(s): 5030B Test(s): 8260FAB
 Sample ID: MW-7 Lab ID: 2003-03-0526 - 3
 Sampled: 03/24/2003 11:15 Extracted: 4/6/2003 15:08
 Matrix: Water QC Batch#: 2003/04/06-01.62
 Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	1300	1000	ug/L	20.00	04/06/2003 15:08	g
Benzene	ND	10	ug/L	20.00	04/06/2003 15:08	
Toluene	ND	10	ug/L	20.00	04/06/2003 15:08	
Ethylbenzene	ND	10	ug/L	20.00	04/06/2003 15:08	
Total xylenes	ND	20	ug/L	20.00	04/06/2003 15:08	
Methyl tert-butyl ether (MTBE)	1600	40	ug/L	20.00	04/06/2003 15:08	
Surrogates(s)						
1,2-Dichloroethane-d4	99.9	76-114	%	20.00	04/06/2003 15:08	
Toluene-d8	100.0	88-110	%	20.00	04/06/2003 15:08	

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan
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Project: 180012.80
Tosco # 5484

Received: 03/24/2003 12:50

Site: 18950 Lake Chabot Road
Castro Valley, CA

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2003/04/04-03.39-021

Water

Test(s): 8260FAB

QC Batch # 2003/04/04-03.39

Date Extracted: 04/04/2003 17:03

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	04/04/2003 17:03	
Benzene	ND	0.5	ug/L	04/04/2003 17:03	
Toluene	ND	0.5	ug/L	04/04/2003 17:03	
Ethylbenzene	ND	0.5	ug/L	04/04/2003 17:03	
Total xylenes	ND	1.0	ug/L	04/04/2003 17:03	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	04/04/2003 17:03	
Surrogates(s)					
1,2-Dichloroethane-d4	87.9	76-114	%	04/04/2003 17:03	
Toluene-d8	95.0	88-110	%	04/04/2003 17:03	

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

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Project: 180012.80

Tosco # 5484

Received: 03/24/2003 12:50

Site: 18950 Lake Chabot Road

Castro Valley, CA

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2003/04/06-01.62-056

Water

Test(s): 8260FAB

QC Batch # 2003/04/06-01.62

Date Extracted: 04/06/2003 12:12

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	04/06/2003 12:12	
Benzene	ND	0.5	ug/L	04/06/2003 12:12	
Toluene	ND	0.5	ug/L	04/06/2003 12:12	
Ethylbenzene	ND	0.5	ug/L	04/06/2003 12:12	
Total xylenes	ND	1.0	ug/L	04/06/2003 12:12	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	04/06/2003 12:12	
Surrogates(s)					
1,2-Dichloroethane-d4	104.0	76-114	%	04/06/2003 12:12	
Toluene-d8	96.2	88-110	%	04/06/2003 12:12	

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 180012.80
Tosco # 5484

Received: 03/24/2003 12:50

Site: 18950 Lake Chabot Road
Castro Valley, CA

Batch QC Report										
Prep(s): 5030B							Test(s): 8260FAB			
Laboratory Control Spike				Water			QC Batch # 2003/04/04-03.39			
LCS		2003/04/04-03.39-019		Extracted: 04/04/2003		Analyzed: 04/04/2003 16:07				
LCSD		2003/04/04-03.39-020		Extracted: 04/04/2003		Analyzed: 04/04/2003 16:40				
Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	23.4	21.9	25.0	93.6	87.6	6.6	69-129	20		
Toluene	18.9	18.5	25.0	75.6	74.0	2.1	70-130	20		
Methyl tert-butyl ether (MTBE)	22.8	20.9	25.0	91.2	83.6	8.7	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	433	391	500	86.6	78.2		76-114			
Toluene-d8	493	481	500	98.6	96.2		88-110			

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan
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Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180012.80
Tosco # 5484

Received: 03/24/2003 12:50

Site: 18950 Lake Chabot Road
Castro Valley, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2003/04/06-01.62

LCS 2003/04/06-01.62-051

Extracted: 04/06/2003

Analyzed: 04/06/2003 11:28

LCSD 2003/04/06-01.62-050

Extracted: 04/06/2003

Analyzed: 04/06/2003 11:50

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD %	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	25.7	22.8	25.0	102.8	91.2	12.0	65-165	20		
Benzene	20.1	22.2	25.0	80.4	88.8	9.9	69-129	20		
Toluene	21.9	22.5	25.0	87.6	90.0	2.7	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	526	495	500	105.2	99.0		76-114	0		
Toluene-d8	477	497	500	95.4	99.4		88-110	0		

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

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Project: 180012.80

Tosco # 5484

Received: 03/24/2003 12:50

Site: 18950 Lake Chabot Road
Castro Valley, CA

Legend and Notes

Analysis Flag

o

Reporting limits were raised due to high level of analyte present in the sample.

Result Flag

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.

Halogenated Volatile Organic Compounds by 8021B/8260B

Gettler Ryan

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Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180012.80

Tosco # 5484

Received: 03/24/2003 12:50

Site: 18950 Lake Chabot Road
Castro Valley, CA**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
MW-5	03/24/2003 10:40	Water	2
MW-7	03/24/2003 11:15	Water	3

Halogenated Volatile Organic Compounds by 8021B/8260B

Gettler Ryan

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6747 Sierra Court Suite J

Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180012.80

Tosco # 5484

Received: 03/24/2003 12:50

 Site: 18950 Lake Chabot Road
 Castro Valley, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW-5	Lab ID: 2003-03-0526 - 2
Sampled: 03/24/2003 10:40	Extracted: 4/4/2003 19:14
Matrix: Water	QC Batch#: 2003/04/04-01.60

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	04/04/2003 19:14	
Vinyl chloride	ND	0.50	ug/L	1.00	04/04/2003 19:14	
Chloroethane	ND	1.0	ug/L	1.00	04/04/2003 19:14	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	04/04/2003 19:14	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	04/04/2003 19:14	
Methylene chloride	ND	5.0	ug/L	1.00	04/04/2003 19:14	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/04/2003 19:14	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/04/2003 19:14	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	04/04/2003 19:14	
Chloroform	ND	0.50	ug/L	1.00	04/04/2003 19:14	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	04/04/2003 19:14	
Carbon tetrachloride	ND	0.50	ug/L	1.00	04/04/2003 19:14	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	04/04/2003 19:14	
Trichloroethene	ND	0.50	ug/L	1.00	04/04/2003 19:14	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	04/04/2003 19:14	
Bromodichloromethane	ND	0.50	ug/L	1.00	04/04/2003 19:14	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	04/04/2003 19:14	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/04/2003 19:14	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/04/2003 19:14	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	04/04/2003 19:14	
Tetrachloroethene	ND	0.50	ug/L	1.00	04/04/2003 19:14	
Dibromochloromethane	ND	0.50	ug/L	1.00	04/04/2003 19:14	
Chlorobenzene	ND	0.50	ug/L	1.00	04/04/2003 19:14	
Bromoform	ND	2.0	ug/L	1.00	04/04/2003 19:14	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/04/2003 19:14	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	04/04/2003 19:14	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	04/04/2003 19:14	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	04/04/2003 19:14	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	04/04/2003 19:14	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/06/2003 18:08

Halogenated Volatile Organic Compounds by 8021B/8260B

Gettler Ryan

Attn.: Deanna Harding

0747 Sierra Court Suite J

Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180012.80

Tosco # 5484

Received: 03/24/2003 12:50

Site: 18950 Lake Chabot Road
Castro Valley, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW-5	Lab ID: 2003-03-0526 - 2
Sampled: 03/24/2003 10:40	Extracted: 4/4/2003 19:14
Matrix: Water	QC Batch#: 2003/04/04-01.60

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Chloromethane	ND	1.0	ug/L	1.00	04/04/2003 19:14	
Bromomethane	ND	1.0	ug/L	1.00	04/04/2003 19:14	
Surrogates(s)						
4-Bromofluorobenzene	102.4	86-115	%	1.00	04/04/2003 19:14	
1,2-Dichloroethane-d4	97.3	76-114	%	1.00	04/04/2003 19:14	
Toluene-d8	103.4	88-110	%	1.00	04/04/2003 19:14	

Halogenated Volatile Organic Compounds by 8021B/8260B

Gettler Ryan

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Project: 180012.80

Tosco # 5484

Received: 03/24/2003 12:50

 Site: 18950 Lake Chabot Road
 Castro Valley, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-7	Lab ID:	2003-03-0526 - 3
Sampled:	03/24/2003 11:15	Extracted:	4/4/2003 19:48
Matrix:	Water	QC Batch#:	2003/04/04-01.60

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	04/04/2003 19:48	
Vinyl chloride	ND	0.50	ug/L	1.00	04/04/2003 19:48	
Chloroethane	ND	1.0	ug/L	1.00	04/04/2003 19:48	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	04/04/2003 19:48	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	04/04/2003 19:48	
Methylene chloride	ND	5.0	ug/L	1.00	04/04/2003 19:48	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/04/2003 19:48	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/04/2003 19:48	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	04/04/2003 19:48	
Chloroform	ND	0.50	ug/L	1.00	04/04/2003 19:48	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	04/04/2003 19:48	
Carbon tetrachloride	ND	0.50	ug/L	1.00	04/04/2003 19:48	
1,2-Dichloroethane	0.98	0.50	ug/L	1.00	04/04/2003 19:48	
Trichloroethene	ND	0.50	ug/L	1.00	04/04/2003 19:48	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	04/04/2003 19:48	
Bromodichloromethane	ND	0.50	ug/L	1.00	04/04/2003 19:48	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	04/04/2003 19:48	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/04/2003 19:48	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/04/2003 19:48	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	04/04/2003 19:48	
Tetrachloroethene	ND	0.50	ug/L	1.00	04/04/2003 19:48	
Dibromochloromethane	ND	0.50	ug/L	1.00	04/04/2003 19:48	
Chlorobenzene	ND	0.50	ug/L	1.00	04/04/2003 19:48	
Bromoform	ND	2.0	ug/L	1.00	04/04/2003 19:48	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/04/2003 19:48	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	04/04/2003 19:48	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	04/04/2003 19:48	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	04/04/2003 19:48	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	04/04/2003 19:48	

Severn Trent Laboratories, Inc.

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04/06/2003 18:08

Halogenated Volatile Organic Compounds by 8021B/8260B

Gettler Ryan

Attn.: Deanna Harding

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Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180012.80

Tosco # 5484

Received: 03/24/2003 12:50

Site: 18950 Lake Chabot Road
Castro Valley, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW-7	Lab ID: 2003-03-0526 - 3
Sampled: 03/24/2003 11:15	Extracted: 4/4/2003 19:48
Matrix: Water	QC Batch#: 2003/04/04-01.60

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Chloromethane	ND	1.0	ug/L	1.00	04/04/2003 19:48	
Bromomethane	ND	1.0	ug/L	1.00	04/04/2003 19:48	
Surrogates(s)						
4-Bromofluorobenzene	105.1	86-115	%	1.00	04/04/2003 19:48	
1,2-Dichloroethane-d4	102.6	76-114	%	1.00	04/04/2003 19:48	
Toluene-d8	98.2	88-110	%	1.00	04/04/2003 19:48	

Halogenated Volatile Organic Compounds by 8021B/8260B

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Project: 180012.80

Tosco # 5484

Received: 03/24/2003 12:50

 Site: 18950 Lake Chabot Road
 Castro Valley, CA

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2003/04/04-01.60-048

Water

Test(s): 8260B

QC Batch # 2003/04/04-01.60

Date Extracted: 04/04/2003 10:48

Compound	Conc.	RL	Unit	Analyzed	Flag
Bromodichloromethane	ND	0.5	ug/L	04/04/2003 10:48	
Bromoform	ND	0.5	ug/L	04/04/2003 10:48	
Bromomethane	ND	1.0	ug/L	04/04/2003 10:48	
Carbon tetrachloride	ND	0.5	ug/L	04/04/2003 10:48	
Chlorobenzene	ND	0.5	ug/L	04/04/2003 10:48	
Chloroethane	ND	1.0	ug/L	04/04/2003 10:48	
2-Chloroethylvinyl ether	ND	5.0	ug/L	04/04/2003 10:48	
Chloroform	ND	1.0	ug/L	04/04/2003 10:48	
Chloromethane	ND	1.0	ug/L	04/04/2003 10:48	
Dibromochloromethane	ND	0.5	ug/L	04/04/2003 10:48	
1,2-Dichlorobenzene	ND	0.5	ug/L	04/04/2003 10:48	
1,3-Dichlorobenzene	ND	0.5	ug/L	04/04/2003 10:48	
1,4-Dichlorobenzene	ND	0.5	ug/L	04/04/2003 10:48	
Dichlorodifluoromethane	ND	0.5	ug/L	04/04/2003 10:48	
1,1-Dichloroethane	ND	0.5	ug/L	04/04/2003 10:48	
1,2-Dichloroethane	ND	0.5	ug/L	04/04/2003 10:48	
1,1-Dichloroethene	ND	0.5	ug/L	04/04/2003 10:48	
cis-1,2-Dichloroethene	ND	0.5	ug/L	04/04/2003 10:48	
trans-1,2-Dichloroethene	ND	0.5	ug/L	04/04/2003 10:48	
1,2-Dichloropropane	ND	0.5	ug/L	04/04/2003 10:48	
cis-1,3-Dichloropropene	ND	0.5	ug/L	04/04/2003 10:48	
trans-1,3-Dichloropropene	ND	0.5	ug/L	04/04/2003 10:48	
Methylene chloride	ND	5.0	ug/L	04/04/2003 10:48	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	04/04/2003 10:48	
Tetrachloroethene	ND	0.5	ug/L	04/04/2003 10:48	
1,1,1-Trichloroethane	ND	0.5	ug/L	04/04/2003 10:48	
1,1,2-Trichloroethane	ND	0.5	ug/L	04/04/2003 10:48	
Trichloroethene	ND	0.5	ug/L	04/04/2003 10:48	

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04/06/2003 18:08

Page 6 of 8

Halogenated Volatile Organic Compounds by 8021B/8260B

Gettler Ryan
Attn.: Deanna Harding

6747 Sierra Court Suite J
Dublin, CA 94568
Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180012.80
Tosco # 5484

Received: 03/24/2003 12:50

Site: 18950 Lake Chabot Road
Castro Valley, CA

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2003/04/04-01.60-048

Water

Test(s): 8260B

QC Batch # 2003/04/04-01.60

Date Extracted: 04/04/2003 10:48

Compound	Conc.	RL	Unit	Analyzed	Flag
Trichlorofluoromethane	ND	1.0	ug/L	04/04/2003 10:48	
Trichlorotrifluoroethane	ND	0.5	ug/L	04/04/2003 10:48	
Vinyl chloride	ND	0.5	ug/L	04/04/2003 10:48	
Surrogates(s)					
4-Bromofluorobenzene	105.4	86-115	%	04/04/2003 10:48	
1,2-Dichloroethane-d4	93.7	76-114	%	04/04/2003 10:48	
Toluene-d8	106.3	88-110	%	04/04/2003 10:48	

Halogenated Volatile Organic Compounds by 8021B/8260B

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J

Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180012.80

Tosco # 5484

Received: 03/24/2003 12:50

 Site: 18950 Lake Chabot Road
 Castro Valley, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike
Water
QC Batch # 2003/04/04-01.60

LCS 2003/04/04-01.60-040

Extracted: 04/04/2003

Analyzed: 04/04/2003 09:40

LCSD 2003/04/04-01.60-014

Extracted: 04/04/2003

Analyzed: 04/04/2003 10:14

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Chlorobenzene	21.8	22.5	20.0	109.0	112.5	3.2	61-121	20		
1,1-Dichloroethene	19.0	19.6	20.0	95.0	98.0	3.1	65-125	20		
Trichloroethene	17.1	18.1	20.0	85.5	90.5	5.7	74-134	20		
Surrogates(s)										
4-Bromofluorobenzene	533	522	500	106.6	104.4		86-115			
1,2-Dichloroethane-d4	460	485	500	92.0	97.0		76-114			
Toluene-d8	484	524	500	96.8	104.8		88-110			

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04/06/2003 18:08

Semi-volatile analysis by GC/MS - EPA8270C

Gettler Ryan

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Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180012.80

Tosco # 5484

Received: 03/24/2003 12:50

Site: 18950 Lake Chabot Road
Castro Valley, CA**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
MW-5	03/24/2003 10:40	Water	2
MW-7	03/24/2003 11:15	Water	3

Semi-volatile analysis by GC/MS - EPA8270C

Gettler Ryan

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Project: 180012.80

Tosco # 5484

Received: 03/24/2003 12:50

 Site: 18950 Lake Chabot Road
 Castro Valley, CA

Prep(s): 3510C/8270C

Test(s): 8270C

Sample ID: MW-5

Lab ID: 2003-03-0526 - 2

Sampled: 03/24/2003 10:40

Extracted: 3/25/2003 08:03

Matrix: Water

QC Batch#: 2003/03/25-01.11

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Phenol	ND	2.0	ug/L	1.00	03/26/2003 14:33	
Bis(2-chloroethyl)ether	ND	2.0	ug/L	1.00	03/26/2003 14:33	
2-Chlorophenol	ND	2.0	ug/L	1.00	03/26/2003 14:33	
1,3-Dichlorobenzene	ND	2.0	ug/L	1.00	03/26/2003 14:33	
1,4-Dichlorobenzene	ND	2.0	ug/L	1.00	03/26/2003 14:33	
Benzyl alcohol	ND	5.0	ug/L	1.00	03/26/2003 14:33	
1,2-Dichlorobenzene	ND	2.0	ug/L	1.00	03/26/2003 14:33	
2-Methylphenol	ND	2.0	ug/L	1.00	03/26/2003 14:33	
Bis(2-chloroisopropyl) ether	ND	2.0	ug/L	1.00	03/26/2003 14:33	
4-Methylphenol	ND	2.0	ug/L	1.00	03/26/2003 14:33	
N-Nitroso-di-n-propylamine	ND	2.0	ug/L	1.00	03/26/2003 14:33	
Hexachloroethane	ND	2.0	ug/L	1.00	03/26/2003 14:33	
Nitrobenzene	ND	2.0	ug/L	1.00	03/26/2003 14:33	
Isophorone	ND	2.0	ug/L	1.00	03/26/2003 14:33	
2-Nitrophenol	ND	2.0	ug/L	1.00	03/26/2003 14:33	
2,4-Dimethylphenol	ND	2.0	ug/L	1.00	03/26/2003 14:33	
Bis(2-chloroethoxy) methane	ND	5.0	ug/L	1.00	03/26/2003 14:33	
2,4-Dichlorophenol	ND	2.0	ug/L	1.00	03/26/2003 14:33	
1,2,4-Trichlorobenzene	ND	2.0	ug/L	1.00	03/26/2003 14:33	
Naphthalene	ND	2.0	ug/L	1.00	03/26/2003 14:33	
4-Chloroaniline	ND	2.0	ug/L	1.00	03/26/2003 14:33	
Hexachlorobutadiene	ND	2.0	ug/L	1.00	03/26/2003 14:33	
4-Chloro-3-methylphenol	ND	5.0	ug/L	1.00	03/26/2003 14:33	
2-Methylnaphthalene	ND	2.0	ug/L	1.00	03/26/2003 14:33	
Hexachlorocyclopentadiene	ND	5.0	ug/L	1.00	03/26/2003 14:33	
2,4,6-Trichlorophenol	ND	2.0	ug/L	1.00	03/26/2003 14:33	
2,4,5-Trichlorophenol	ND	2.0	ug/L	1.00	03/26/2003 14:33	
2-Chloronaphthalene	ND	2.0	ug/L	1.00	03/26/2003 14:33	
2-Nitroaniline	ND	10	ug/L	1.00	03/26/2003 14:33	

04/11/2003 00:35

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Page 2 of 12

Semi-volatile analysis by GC/MS - EPA8270C

Gettler Ryan

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Project: 180012.80
Tosco # 5484

Received: 03/24/2003 12:50

Site: 18950 Lake Chabot Road
Castro Valley, CA

Prep(s):	3510C/8270C	Test(s):	8270C
Sample ID:	MW-5	Lab ID:	2003-03-0526 - 2
Sampled:	03/24/2003 10:40	Extracted:	3/25/2003 08:03
Matrix:	Water	QC Batch#:	2003/03/25-01.11

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dimethyl phthalate	ND	5.0	ug/L	1.00	03/26/2003 14:33	
Acenaphthylene	ND	2.0	ug/L	1.00	03/26/2003 14:33	
3-Nitroaniline	ND	2.0	ug/L	1.00	03/26/2003 14:33	
Acenaphthene	ND	2.0	ug/L	1.00	03/26/2003 14:33	
2,4-Dinitrophenol	ND	10	ug/L	1.00	03/26/2003 14:33	
4-Nitrophenol	ND	10	ug/L	1.00	03/26/2003 14:33	
Dibenzofuran	ND	2.0	ug/L	1.00	03/26/2003 14:33	
2,4-Dinitrotoluene	ND	2.0	ug/L	1.00	03/26/2003 14:33	
2,6-Dinitrotoluene	ND	5.0	ug/L	1.00	03/26/2003 14:33	
Diethyl phthalate	ND	5.0	ug/L	1.00	03/26/2003 14:33	
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	1.00	03/26/2003 14:33	
Fluorene	ND	2.0	ug/L	1.00	03/26/2003 14:33	
4-Nitroaniline	ND	10	ug/L	1.00	03/26/2003 14:33	
2-Methyl-4,6-dinitrophenol	ND	10	ug/L	1.00	03/26/2003 14:33	
N-Nitrosodiphenylamine	ND	2.0	ug/L	1.00	03/26/2003 14:33	
4-Bromophenyl phenyl ether	ND	5.0	ug/L	1.00	03/26/2003 14:33	
Hexachlorobenzene	ND	2.0	ug/L	1.00	03/26/2003 14:33	
Pentachlorophenol	ND	10	ug/L	1.00	03/26/2003 14:33	
Phenanthrene	ND	2.0	ug/L	1.00	03/26/2003 14:33	
Anthracene	ND	2.0	ug/L	1.00	03/26/2003 14:33	
Di-n-butyl phthalate	ND	5.0	ug/L	1.00	03/26/2003 14:33	
Fluoranthene	ND	2.0	ug/L	1.00	03/26/2003 14:33	
Pyrene	ND	2.0	ug/L	1.00	03/26/2003 14:33	
Butyl benzyl phthalate	ND	5.0	ug/L	1.00	03/26/2003 14:33	
3,3-Dichlorobenzidine	ND	5.0	ug/L	1.00	03/26/2003 14:33	
Benzo(a)anthracene	ND	2.0	ug/L	1.00	03/26/2003 14:33	
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.00	03/26/2003 14:33	
Chrysene	ND	2.0	ug/L	1.00	03/26/2003 14:33	
Di-n-octyl phthalate	ND	5.0	ug/L	1.00	03/26/2003 14:33	

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04/11/2003 00:35

Semi-volatile analysis by GC/MS - EPA8270C

Gettler Ryan

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Project: 180012.80

Tosco # 5484

Received: 03/24/2003 12:50

 Site: 18950 Lake Chabot Road
 Castro Valley, CA

Prep(s):	3510C/8270C	Test(s):	8270C
Sample ID:	MW-5	Lab ID:	2003-03-0526 - 2
Sampled:	03/24/2003 10:40	Extracted:	3/25/2003 08:03
Matrix:	Water	QC Batch#:	2003/03/25-01.11

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Benzo(b)fluoranthene	ND	2.0	ug/L	1.00	03/26/2003 14:33	
Benzo(k)fluoranthene	ND	2.0	ug/L	1.00	03/26/2003 14:33	
Benzo(a)pyrene	ND	2.0	ug/L	1.00	03/26/2003 14:33	
Indeno(1,2,3-c,d)pyrene	ND	2.0	ug/L	1.00	03/26/2003 14:33	
Dibenzo(a,h)anthracene	ND	2.0	ug/L	1.00	03/26/2003 14:33	
Benzo(g,h,i)perylene	ND	2.0	ug/L	1.00	03/26/2003 14:33	
Benzoic acid	ND	10	ug/L	1.00	03/26/2003 14:33	
Surrogates(s)						
Nitrobenzene-d5	29.1	35-114	%	1.00	03/26/2003 14:33	sl
2-Fluorobiphenyl	31.4	43-116	%	1.00	03/26/2003 14:33	sl
p-Terphenyl-d14	61.8	33-141	%	1.00	03/26/2003 14:33	
2-Fluorophenol	25.4	25-100	%	1.00	03/26/2003 14:33	
Phenol-d6	17.3	10-110	%	1.00	03/26/2003 14:33	
2,4,6-Tribromophenol	22.5	10-123	%	1.00	03/26/2003 14:33	

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04/11/2003 00:35

Page 4 of 12

Semi-volatile analysis by GC/MS - EPA8270C

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Project: 180012.80

Tosco # 5484

Received: 03/24/2003 12:50

 Site: 18950 Lake Chabot Road
 Castro Valley, CA

Prep(s):	3510C/8270C	Test(s):	8270C
Sample ID:	MW-7	Lab ID:	2003-03-0526 - 3
Sampled:	03/24/2003 11:15	Extracted:	3/25/2003 08:03
Matrix:	Water	QC Batch#:	2003/03/25-01.11

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Phenol	ND	2.0	ug/L	1.00	03/26/2003 15:01	
Bis(2-chloroethyl)ether	ND	2.0	ug/L	1.00	03/26/2003 15:01	
2-Chlorophenol	ND	2.0	ug/L	1.00	03/26/2003 15:01	
1,3-Dichlorobenzene	ND	2.0	ug/L	1.00	03/26/2003 15:01	
1,4-Dichlorobenzene	ND	2.0	ug/L	1.00	03/26/2003 15:01	
Benzyl alcohol	ND	5.0	ug/L	1.00	03/26/2003 15:01	
1,2-Dichlorobenzene	ND	2.0	ug/L	1.00	03/26/2003 15:01	
2-Methylphenol	ND	2.0	ug/L	1.00	03/26/2003 15:01	
Bis(2-chloroisopropyl) ether	ND	2.0	ug/L	1.00	03/26/2003 15:01	
4-Methylphenol	ND	2.0	ug/L	1.00	03/26/2003 15:01	
N-Nitroso-di-n-propylamine	ND	2.0	ug/L	1.00	03/26/2003 15:01	
Hexachloroethane	ND	2.0	ug/L	1.00	03/26/2003 15:01	
Nitrobenzene	ND	2.0	ug/L	1.00	03/26/2003 15:01	
Isophorone	ND	2.0	ug/L	1.00	03/26/2003 15:01	
2-Nitrophenol	ND	2.0	ug/L	1.00	03/26/2003 15:01	
2,4-Dimethylphenol	ND	2.0	ug/L	1.00	03/26/2003 15:01	
Bis(2-chloroethoxy) methane	ND	5.0	ug/L	1.00	03/26/2003 15:01	
2,4-Dichlorophenol	ND	2.0	ug/L	1.00	03/26/2003 15:01	
1,2,4-Trichlorobenzene	ND	2.0	ug/L	1.00	03/26/2003 15:01	
Naphthalene	ND	2.0	ug/L	1.00	03/26/2003 15:01	
4-Chloroaniline	ND	2.0	ug/L	1.00	03/26/2003 15:01	
Hexachlorobutadiene	ND	2.0	ug/L	1.00	03/26/2003 15:01	
4-Chloro-3-methylphenol	ND	5.0	ug/L	1.00	03/26/2003 15:01	
2-Methylnaphthalene	ND	2.0	ug/L	1.00	03/26/2003 15:01	
Hexachlorocyclopentadiene	ND	5.0	ug/L	1.00	03/26/2003 15:01	
2,4,6-Trichlorophenol	ND	2.0	ug/L	1.00	03/26/2003 15:01	
2,4,5-Trichlorophenol	ND	2.0	ug/L	1.00	03/26/2003 15:01	
2-Chloronaphthalene	ND	2.0	ug/L	1.00	03/26/2003 15:01	
2-Nitroaniline	ND	10	ug/L	1.00	03/26/2003 15:01	

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04/11/2003 00:35

Semi-volatile analysis by GC/MS - EPA8270C

Gettler Ryan

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Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180012.80

Tosco # 5484

Received: 03/24/2003 12:50

 Site: 18950 Lake Chabot Road
 Castro Valley, CA

Prep(s):	3510C/8270C	Test(s):	8270C
Sample ID:	MW-7	Lab ID:	2003-03-0526 - 3
Sampled:	03/24/2003 11:15	Extracted:	3/25/2003 08:03
Matrix:	Water	QC Batch#:	2003/03/25-01.11

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dimethyl phthalate	ND	5.0	ug/L	1.00	03/26/2003 15:01	
Acenaphthylene	ND	2.0	ug/L	1.00	03/26/2003 15:01	
3-Nitroaniline	ND	2.0	ug/L	1.00	03/26/2003 15:01	
Acenaphthene	ND	2.0	ug/L	1.00	03/26/2003 15:01	
2,4-Dinitrophenol	ND	10	ug/L	1.00	03/26/2003 15:01	
4-Nitrophenol	ND	10	ug/L	1.00	03/26/2003 15:01	
Dibenzofuran	ND	2.0	ug/L	1.00	03/26/2003 15:01	
2,4-Dinitrotoluene	ND	2.0	ug/L	1.00	03/26/2003 15:01	
2,6-Dinitrotoluene	ND	5.0	ug/L	1.00	03/26/2003 15:01	
Diethyl phthalate	ND	5.0	ug/L	1.00	03/26/2003 15:01	
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	1.00	03/26/2003 15:01	
Fluorene	ND	2.0	ug/L	1.00	03/26/2003 15:01	
4-Nitroaniline	ND	10	ug/L	1.00	03/26/2003 15:01	
2-Methyl-4,6-dinitrophenol	ND	10	ug/L	1.00	03/26/2003 15:01	
N-Nitrosodiphenylamine	ND	2.0	ug/L	1.00	03/26/2003 15:01	
4-Bromophenyl phenyl ether	ND	5.0	ug/L	1.00	03/26/2003 15:01	
Hexachlorobenzene	ND	2.0	ug/L	1.00	03/26/2003 15:01	
Pentachlorophenol	ND	10	ug/L	1.00	03/26/2003 15:01	
Phenanthrene	ND	2.0	ug/L	1.00	03/26/2003 15:01	
Anthracene	ND	2.0	ug/L	1.00	03/26/2003 15:01	
Di-n-butyl phthalate	ND	5.0	ug/L	1.00	03/26/2003 15:01	
Fluoranthene	ND	2.0	ug/L	1.00	03/26/2003 15:01	
Pyrene	ND	2.0	ug/L	1.00	03/26/2003 15:01	
Butyl benzyl phthalate	ND	5.0	ug/L	1.00	03/26/2003 15:01	
3,3-Dichlorobenzidine	ND	5.0	ug/L	1.00	03/26/2003 15:01	
Benzo(a)anthracene	ND	2.0	ug/L	1.00	03/26/2003 15:01	
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.00	03/26/2003 15:01	
Chrysene	ND	2.0	ug/L	1.00	03/26/2003 15:01	
Di-n-octyl phthalate	ND	5.0	ug/L	1.00	03/26/2003 15:01	

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04/11/2003 00:35

Semi-volatile analysis by GC/MS - EPA8270C

Gettler Ryan

Attn.: Deanna Harding

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Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180012.80

Tosco # 5484

Received: 03/24/2003 12:50

Site: 18950 Lake Chabot Road
Castro Valley, CA

Prep(s): 3510C/8270C	Test(s): 8270C
Sample ID: MW-7	Lab ID: 2003-03-0526 - 3
Sampled: 03/24/2003 11:15	Extracted: 3/25/2003 08:03
Matrix: Water	QC Batch#: 2003/03/25-01.11

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Benzo(b)fluoranthene	ND	2.0	ug/L	1.00	03/26/2003 15:01	
Benzo(k)fluoranthene	ND	2.0	ug/L	1.00	03/26/2003 15:01	
Benzo(a)pyrene	ND	2.0	ug/L	1.00	03/26/2003 15:01	
Indeno(1,2,3-c,d)pyrene	ND	2.0	ug/L	1.00	03/26/2003 15:01	
Dibenzo(a,h)anthracene	ND	2.0	ug/L	1.00	03/26/2003 15:01	
Benzo(g,h,i)perylene	ND	2.0	ug/L	1.00	03/26/2003 15:01	
Benzoic acid	ND	10	ug/L	1.00	03/26/2003 15:01	
Surrogates(s)						
Nitrobenzene-d5	17.6	35-114	%	1.00	03/26/2003 15:01	sl
2-Fluorobiphenyl	16.4	43-116	%	1.00	03/26/2003 15:01	sl
p-Terphenyl-d14	66.4	33-141	%	1.00	03/26/2003 15:01	
2-Fluorophenol	17.3	25-100	%	1.00	03/26/2003 15:01	sl
Phenol-d6	12.1	10-110	%	1.00	03/26/2003 15:01	
2,4,6-Tribromophenol	45.0	10-123	%	1.00	03/26/2003 15:01	

Semi-volatile analysis by GC/MS - EPA8270C

Gettler Ryan

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Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180012.80

Tosco # 5484

Received: 03/24/2003 12:50

Site: 18950 Lake Chabot Road

Castro Valley, CA

Batch QC Report

Prep(s): 3510C/8270C

Method Blank

MB: 2003/03/25-01.11-001

Water

Test(s): 8270C

QC Batch # 2003/03/25-01.11

Date Extracted: 03/25/2003 08:03

Compound	Conc.	RL	Unit	Analyzed	Flag
Phenol	ND	2.0	ug/L	03/26/2003 11:12	
Bis(2-chloroethyl)ether	ND	2.0	ug/L	03/26/2003 11:12	
2-Chlorophenol	ND	2.0	ug/L	03/26/2003 11:12	
1,3-Dichlorobenzene	ND	2.0	ug/L	03/26/2003 11:12	
1,4-Dichlorobenzene	ND	2.0	ug/L	03/26/2003 11:12	
Benzyl alcohol	ND	5.0	ug/L	03/26/2003 11:12	
1,2-Dichlorobenzene	ND	2.0	ug/L	03/26/2003 11:12	
2-Methylphenol	ND	2.0	ug/L	03/26/2003 11:12	
Bis(2-chloroisopropyl) ether	ND	2.0	ug/L	03/26/2003 11:12	
4-Methylphenol	ND	2.0	ug/L	03/26/2003 11:12	
N-Nitroso-di-n-propylamine	ND	2.0	ug/L	03/26/2003 11:12	
Hexachloroethane	ND	2.0	ug/L	03/26/2003 11:12	
Nitrobenzene	ND	2.0	ug/L	03/26/2003 11:12	
Isophorone	ND	2.0	ug/L	03/26/2003 11:12	
2-Nitrophenol	ND	2.0	ug/L	03/26/2003 11:12	
2,4-Dimethylphenol	ND	2.0	ug/L	03/26/2003 11:12	
Bis(2-chloroethoxy) methane	ND	5.0	ug/L	03/26/2003 11:12	
2,4-Dichlorophenol	ND	2.0	ug/L	03/26/2003 11:12	
1,2,4-Trichlorobenzene	ND	2.0	ug/L	03/26/2003 11:12	
Naphthalene	ND	2.0	ug/L	03/26/2003 11:12	
4-Chloroaniline	ND	2.0	ug/L	03/26/2003 11:12	
Hexachlorobutadiene	ND	2.0	ug/L	03/26/2003 11:12	
4-Chloro-3-methylphenol	ND	5.0	ug/L	03/26/2003 11:12	
2-Methylnaphthalene	ND	2.0	ug/L	03/26/2003 11:12	
Hexachlorocyclopentadiene	ND	5.0	ug/L	03/26/2003 11:12	
2,4,6-Trichlorophenol	ND	2.0	ug/L	03/26/2003 11:12	
2,4,5-Trichlorophenol	ND	2.0	ug/L	03/26/2003 11:12	
2-Chloronaphthalene	ND	2.0	ug/L	03/26/2003 11:12	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/11/2003 00:35

Semi-volatile analysis by GC/MS - EPA8270C

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J

Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180012.80

Tosco # 5484

Received: 03/24/2003 12:50

Site: 18950 Lake Chabot Road
Castro Valley, CA

Batch QC Report

Prep(s): 3510C/8270C

Method Blank

MB: 2003/03/25-01.11-001

Water

Test(s): 8270C

QC Batch # 2003/03/25-01.11

Date Extracted: 03/25/2003 08:03

Compound	Conc.	RL	Unit	Analyzed	Flag
2-Nitroaniline	ND	10	ug/L	03/26/2003 11:12	
Dimethyl phthalate	ND	5.0	ug/L	03/26/2003 11:12	
Acenaphthylene	ND	2.0	ug/L	03/26/2003 11:12	
3-Nitroaniline	ND	2.0	ug/L	03/26/2003 11:12	
Acenaphthene	ND	2.0	ug/L	03/26/2003 11:12	
2,4-Dinitrophenol	ND	10	ug/L	03/26/2003 11:12	
4-Nitrophenol	ND	10	ug/L	03/26/2003 11:12	
Dibenzofuran	ND	2.0	ug/L	03/26/2003 11:12	
2,4-Dinitrotoluene	ND	2.0	ug/L	03/26/2003 11:12	
2,6-Dinitrotoluene	ND	5.0	ug/L	03/26/2003 11:12	
Diethyl phthalate	ND	5.0	ug/L	03/26/2003 11:12	
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	03/26/2003 11:12	
Fluorene	ND	2.0	ug/L	03/26/2003 11:12	
4-Nitroaniline	ND	10	ug/L	03/26/2003 11:12	
2-Methyl-4,6-dinitrophenol	ND	10	ug/L	03/26/2003 11:12	
N-Nitrosodiphenylamine	ND	2.0	ug/L	03/26/2003 11:12	
4-Bromophenyl phenyl ether	ND	5.0	ug/L	03/26/2003 11:12	
Hexachlorobenzene	ND	2.0	ug/L	03/26/2003 11:12	
Pentachlorophenol	ND	10	ug/L	03/26/2003 11:12	
Phenanthrene	ND	2.0	ug/L	03/26/2003 11:12	
Anthracene	ND	2.0	ug/L	03/26/2003 11:12	
Di-n-butyl phthalate	ND	5.0	ug/L	03/26/2003 11:12	
Fluoranthene	ND	2.0	ug/L	03/26/2003 11:12	
Pyrene	ND	2.0	ug/L	03/26/2003 11:12	
Butyl benzyl phthalate	ND	5.0	ug/L	03/26/2003 11:12	
3,3-Dichlorobenzidine	ND	5.0	ug/L	03/26/2003 11:12	
Benzo(a)anthracene	ND	2.0	ug/L	03/26/2003 11:12	
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	03/26/2003 11:12	

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Tosco # 5484

Received: 03/24/2003 12:50

Site: 18950 Lake Chabot Road
Castro Valley, CA

Batch QC Report

Prep(s): 3510C/8270C
Method Blank
MB: 2003/03/25-01.11-001

Water

Test(s): 8270C
QC Batch # 2003/03/25-01.11
Date Extracted: 03/25/2003 08:03

Compound	Conc.	RL	Unit	Analyzed	Flag
Chrysene	ND	2.0	ug/L	03/26/2003 11:12	
Di-n-octyl phthalate	ND	5.0	ug/L	03/26/2003 11:12	
Benzo(b)fluoranthene	ND	2.0	ug/L	03/26/2003 11:12	
Benzo(k)fluoranthene	ND	2.0	ug/L	03/26/2003 11:12	
Benzo(a)pyrene	ND	2.0	ug/L	03/26/2003 11:12	
Indeno(1,2,3-c,d)pyrene	ND	2.0	ug/L	03/26/2003 11:12	
Dibenzo(a,h)anthracene	ND	2.0	ug/L	03/26/2003 11:12	
Benzo(g,h,i)perylene	ND	2.0	ug/L	03/26/2003 11:12	
Benzoic acid	ND	10	ug/L	03/26/2003 11:12	
Surrogates(s)					
Nitrobenzene-d5	64.0	35-114	%	03/26/2003 11:12	
2-Fluorobiphenyl	55.1	43-116	%	03/26/2003 11:12	
p-Terphenyl-d14	72.8	33-141	%	03/26/2003 11:12	
2-Fluorophenol	41.8	25-100	%	03/26/2003 11:12	
Phenol-d6	26.4	10-110	%	03/26/2003 11:12	
2,4,6-Tribromophenol	63.3	10-123	%	03/26/2003 11:12	

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 Castro Valley, CA

Batch QC Report

Prep(s): 3510C/8270C

Test(s): 8270C

Laboratory Control Spike
Water
QC Batch # 2003/03/25-01.11

LCS 2003/03/25-01.11-002

Extracted: 03/25/2003

Analyzed: 03/26/2003 11:40

LCSD 2003/03/25-01.11-003

Extracted: 03/25/2003

Analyzed: 03/26/2003 12:09

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD %	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Phenol	17.0	16.3	60.0	28.3	27.2	4.0	12-89	35		
2-Chlorophenol	37.4	37.8	60.0	62.3	63.0	1.1	23-134	25		
1,4-Dichlorobenzene	12.5	12.2	30.0	41.7	40.7	2.4	36-97	30		
N-Nitroso-di-n-propylamine	17.1	18.7	30.0	57.0	62.3	8.9	10-130	34		
1,2,4-Trichlorobenzene	13.3	13.2	30.0	44.3	44.0	0.7	44-142	35		
4-Chloro-3-methylphenol	45.7	40.6	60.0	76.2	67.7	11.8	22-147	31		
Acenaphthene	17.7	18.6	30.0	59.0	62.0	5.0	56-118	30		
4-Nitrophenol	21.9	16.0	60.0	36.5	26.7	31.0	1-132	35		
2,4-Dinitrotoluene	20.1	22.3	30.0	67.0	74.3	10.3	39-139	35		
Pentachlorophenol	36.2	34.0	60.0	60.3	56.7	6.2	45-125	35		
Pyrene	17.3	17.7	30.0	57.7	59.0	2.2	52-115	35		
Surrogates(s)										
Nitrobenzene-d5	16.3	16.7	25	65.2	66.8		35-114			
2-Fluorobiphenyl	16.1	15.8	25	64.4	63.2		43-116			
p-Terphenyl-d14	18.2	19.4	25	72.8	77.6		33-141			
2-Fluorophenol	23.6	21.8	50	47.2	43.6		25-100			
Phenol-d6	15.9	14.5	50	31.8	29.0		10-110			
2,4,6-Tribromophenol	43.8	43.8	50	87.6	87.6		10-123			

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Page 11 of 12

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Castro Valley, CA

Legend and Notes

Result Flag

sl

Surrogate recoveries were lower than QC limit due to matrix interference,
confirmed by reanalysis.